

FO2250" ST959660

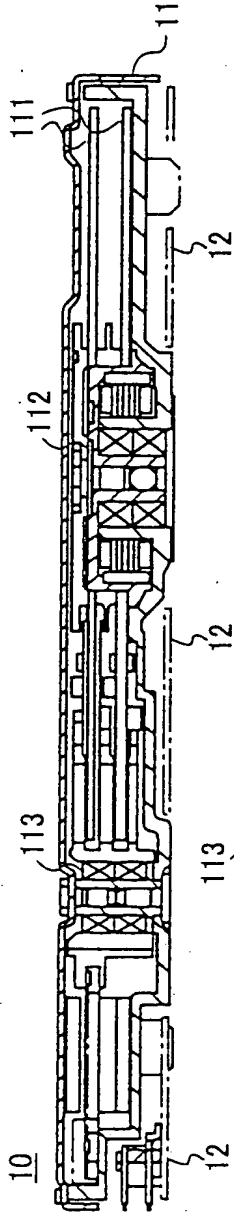


FIG. 1A

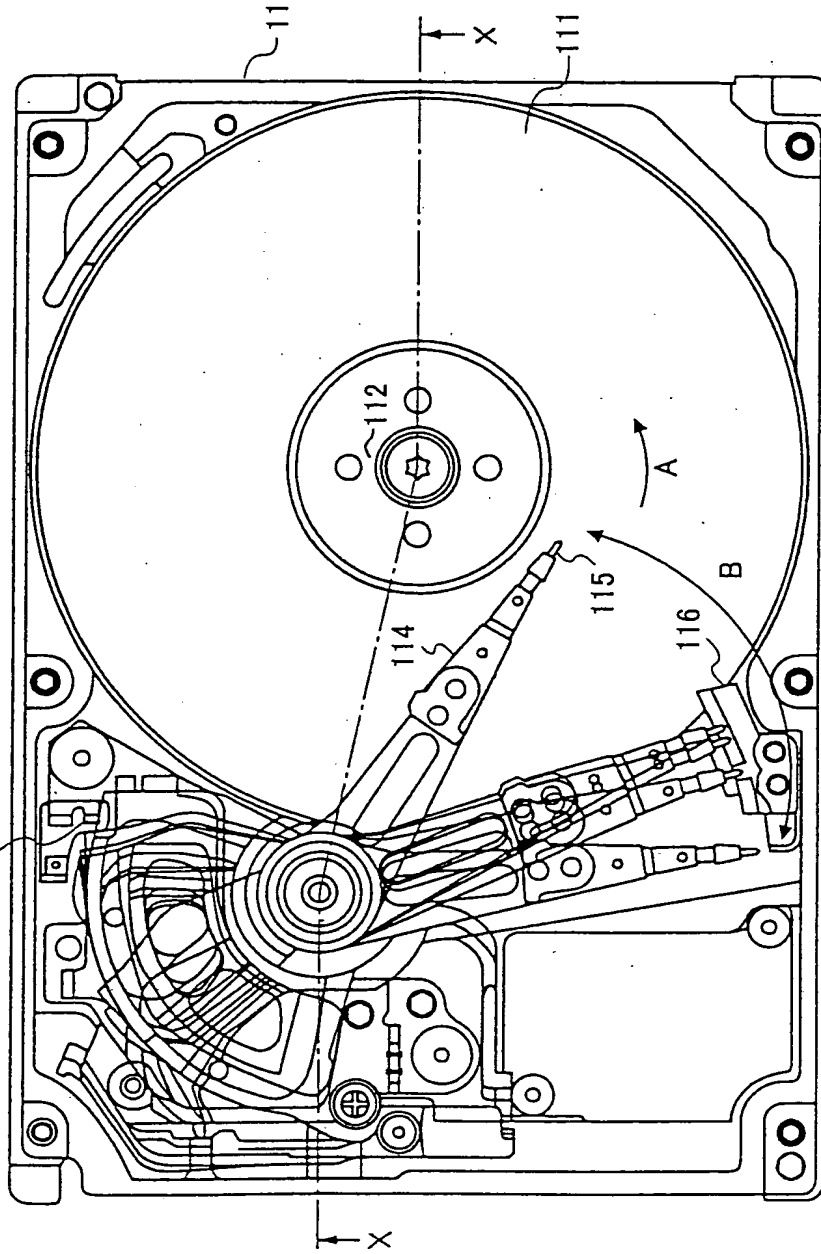


FIG. 1B

FIG. 2

The diagram illustrates the architecture of a hard disk drive (HDD) system, labeled 10. It is divided into three main functional blocks: a Host System (100), a Personal Computer (PCA) (12), and a Hard Disk Drive (HDD) (11).

Host System (100): Includes a **HOST SYSTEM** block and a **SWITCH** block. The **SWITCH** block is connected to the **HDC** block in the PCA and the **HEAD IC** block in the HDD.

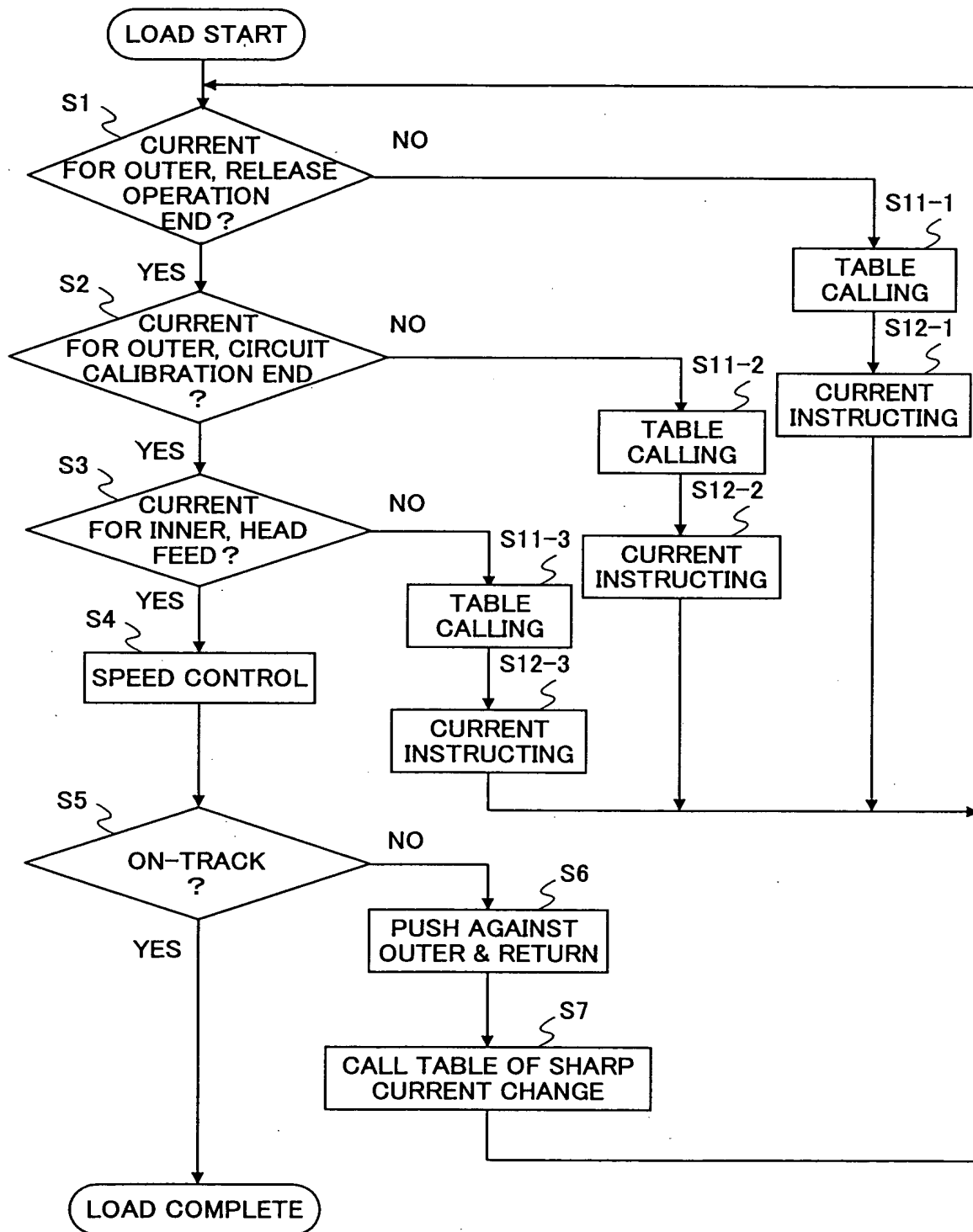
Personal Computer (PCA) (12): Contains the following components and connections:

- HDC (Host Data Controller)** (121): Receives data from the **HOST SYSTEM** and the **SWITCH**, and sends data to the **RWC** and **RAM**.
- ROM (Read Only Memory)** (123): Connected to the **MPU** via a bidirectional bus.
- MPU (Microprocessor Unit)** (124): The central processing unit, connected to the **HDC**, **RWC**, **SVC**, **HEAD IC**, **VCM**, and **SPM**.
- RWC (Read/Write Controller)** (125): Connected to the **HDC** and **MPU**, and controls the **HEAD IC**.
- SVC (Servo Control Circuit)** (126): Receives signals from the **MPU** and controls the **VCM** and **SPM** via drivers (127 and 128).
- RAM (Random Access Memory)** (122): Connected to the **HDC** and **MPU**.

Hard Disk Drive (HDD) (11): Contains the following components and connections:

- HEAD IC (Head Interface Controller)** (117): Receives signals from the **MPU** and **RWC**, and controls the **HEAD** and **DISK**.
- HEAD** (111): The read/write head, connected to the **HEAD IC** and **VCM**.
- DISK** (111): The storage medium, connected to the **HEAD** and **SPM**.
- VCM (Voice Coil Motor)** (113): Controls the **HEAD** and **SPM**, receiving signals from the **MPU** and **SVC**.
- SPM (Servo Motor)** (112): Controls the **DISK**, receiving signals from the **MPU** and **SVC** via driver 128.

FIG.3



0941.65876

FIG.4

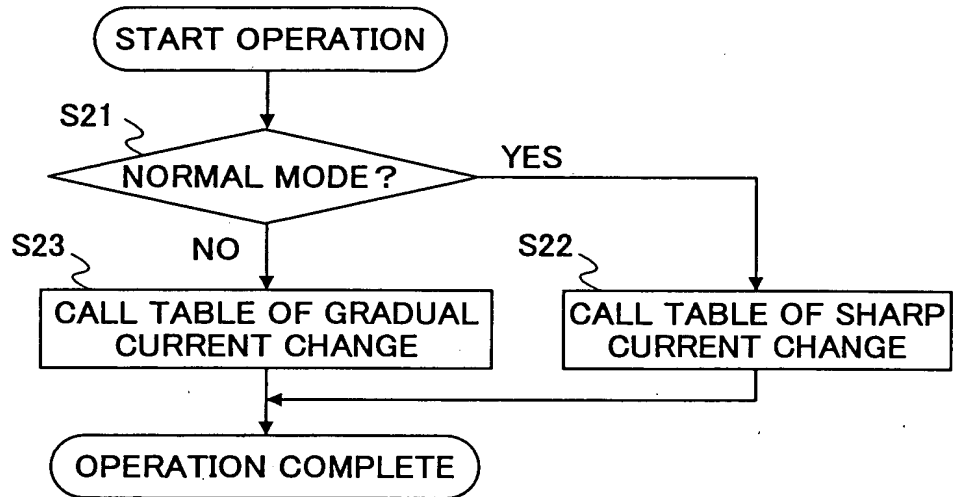
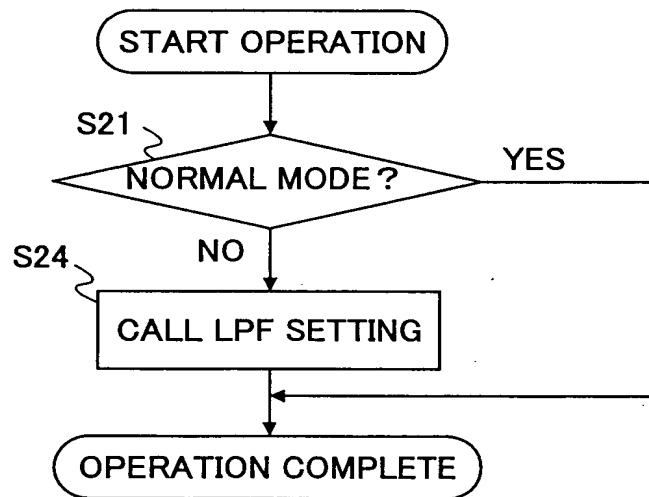
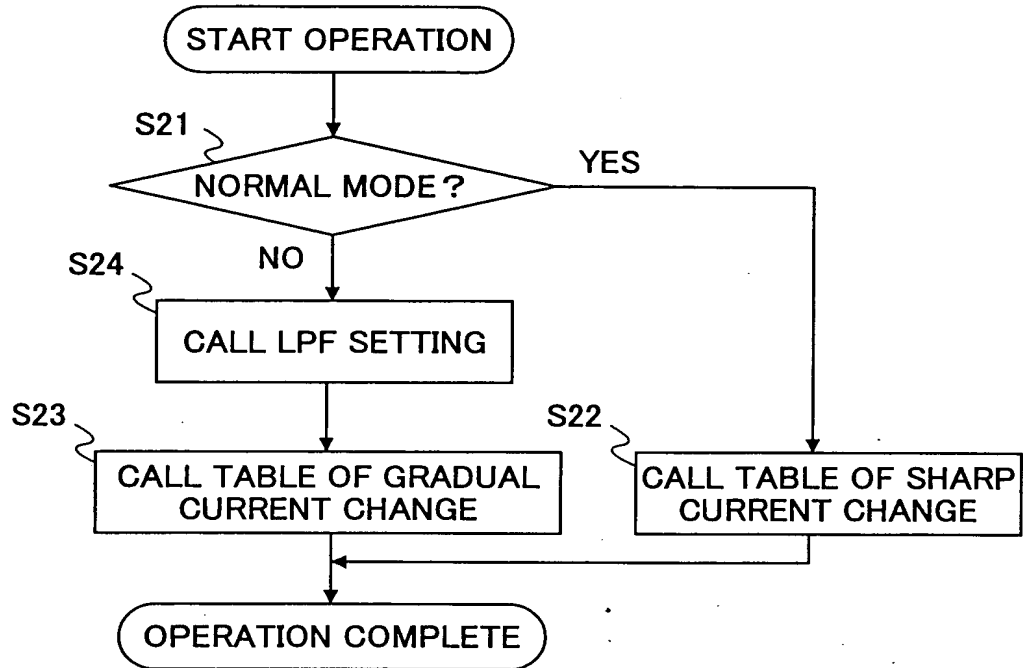


FIG.5



095515-092701
T0260-5T959660

FIG.6



0941.65876-0001

FIG.7

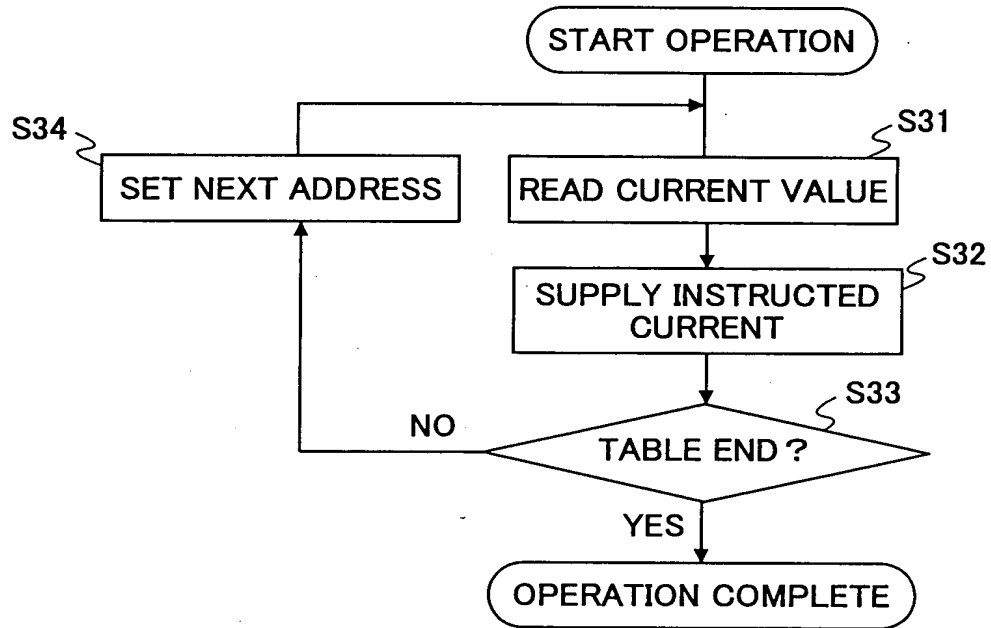
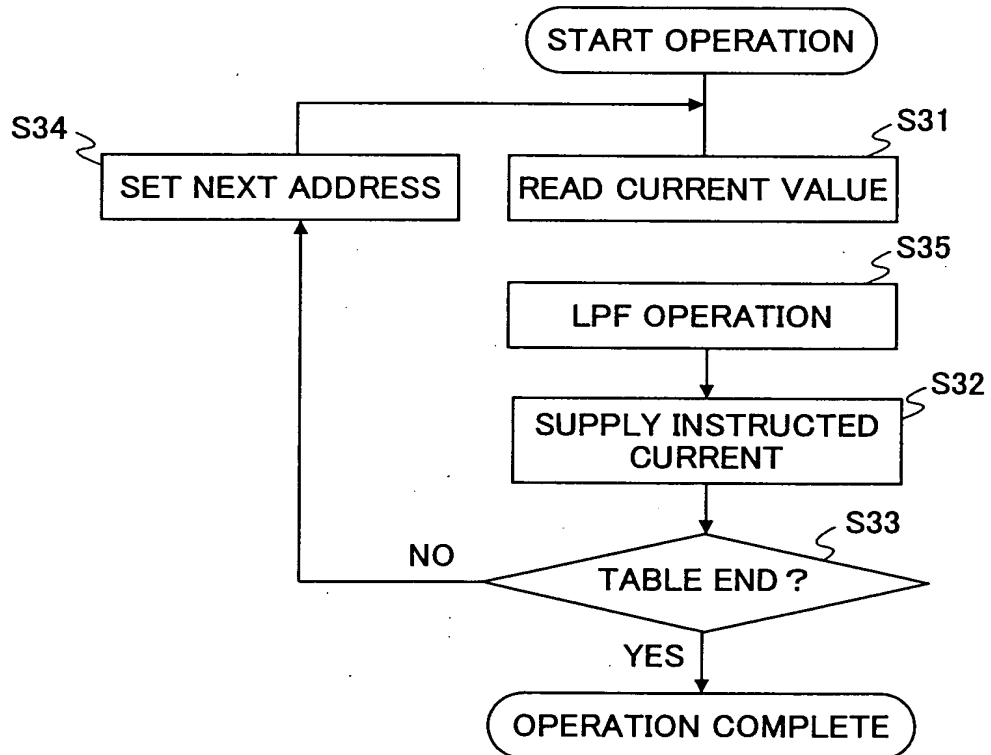


FIG.8



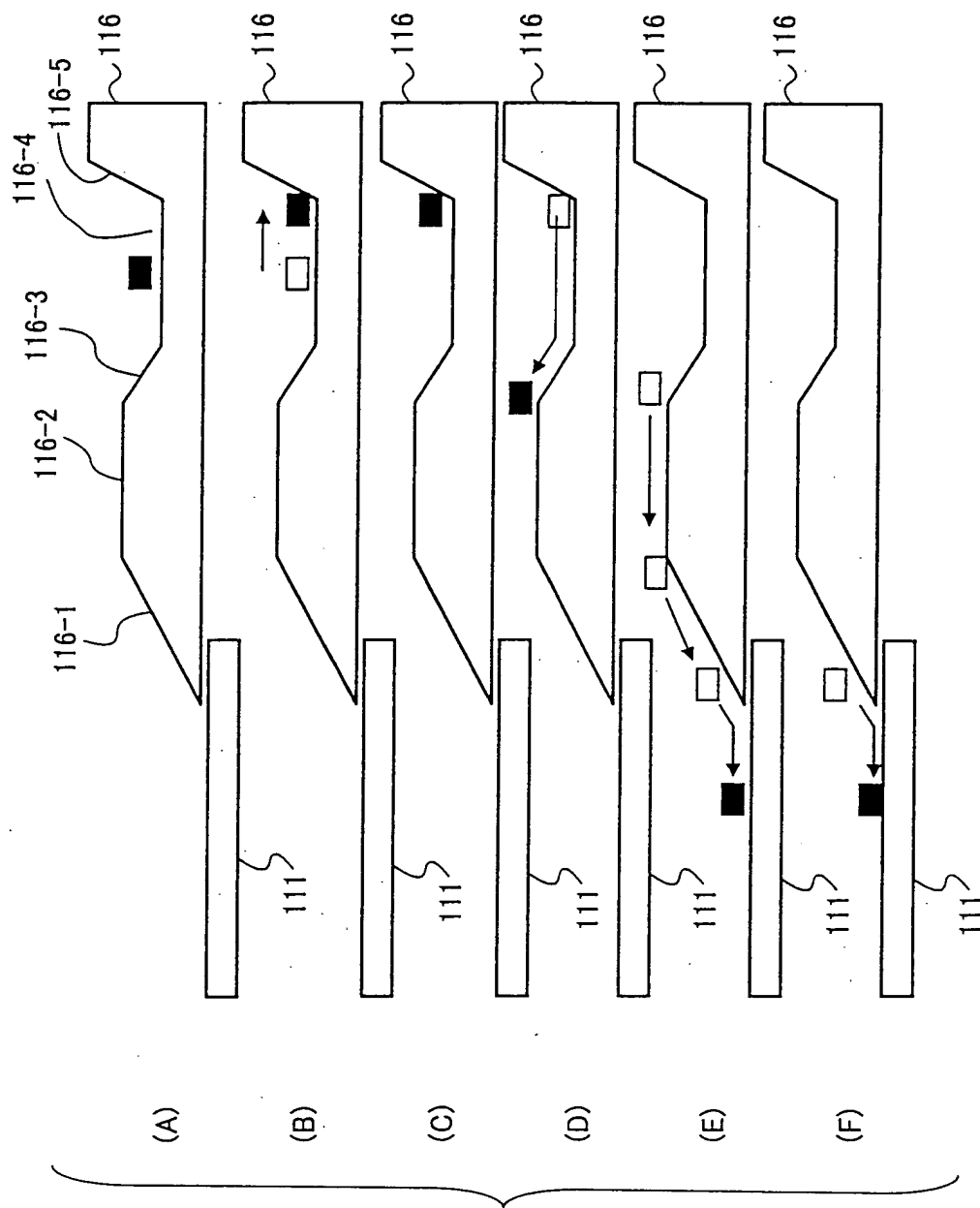


FIG. 9

FO2260" ST959660

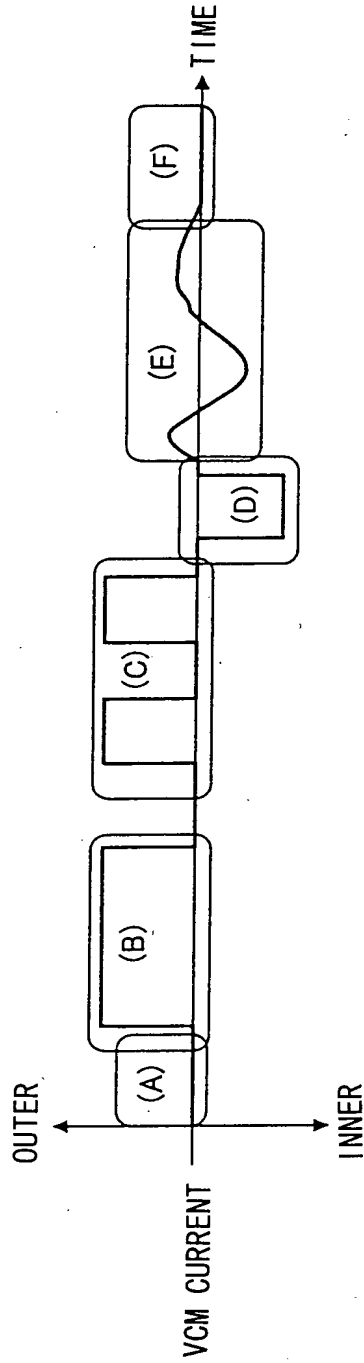


FIG. 10A

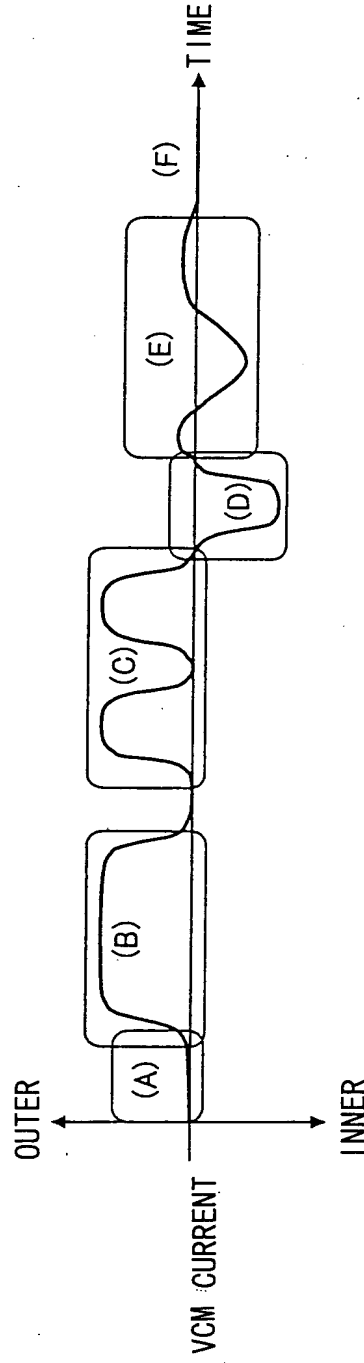
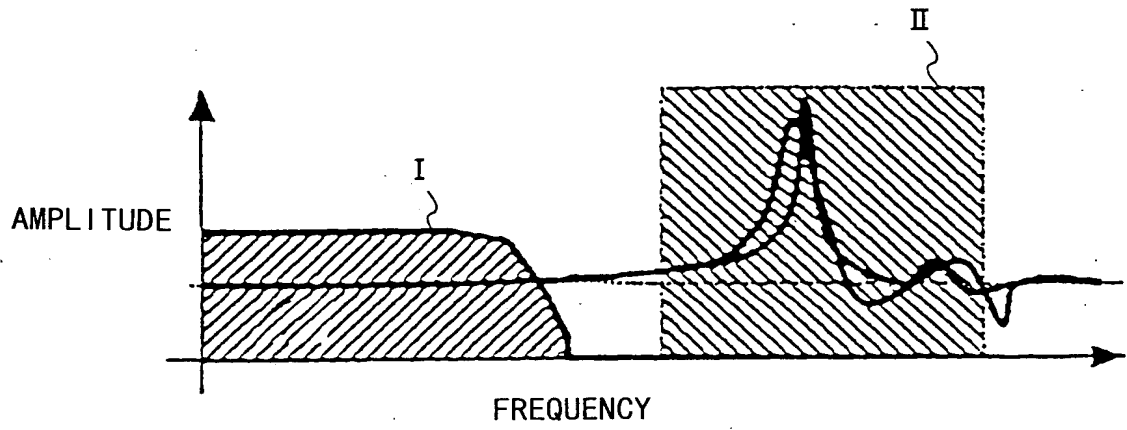


FIG. 10B

FIG. 11



0941.65876

FIG. 12A

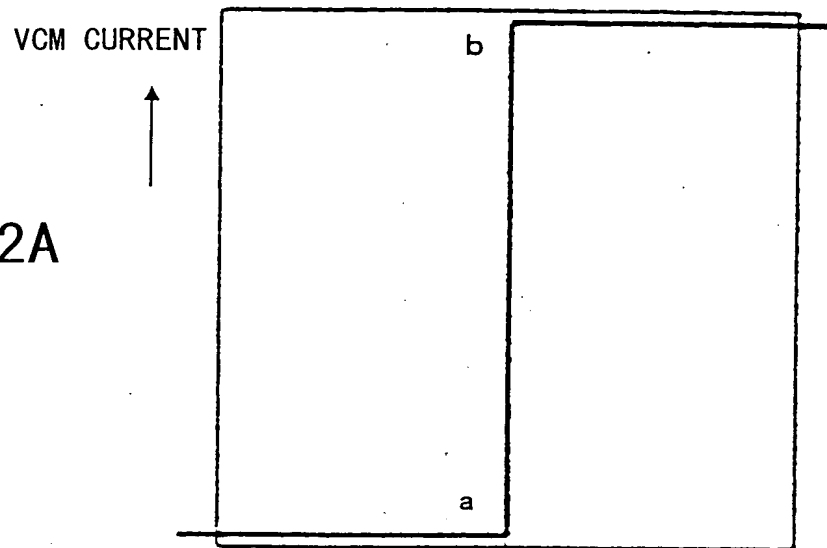


FIG. 12B

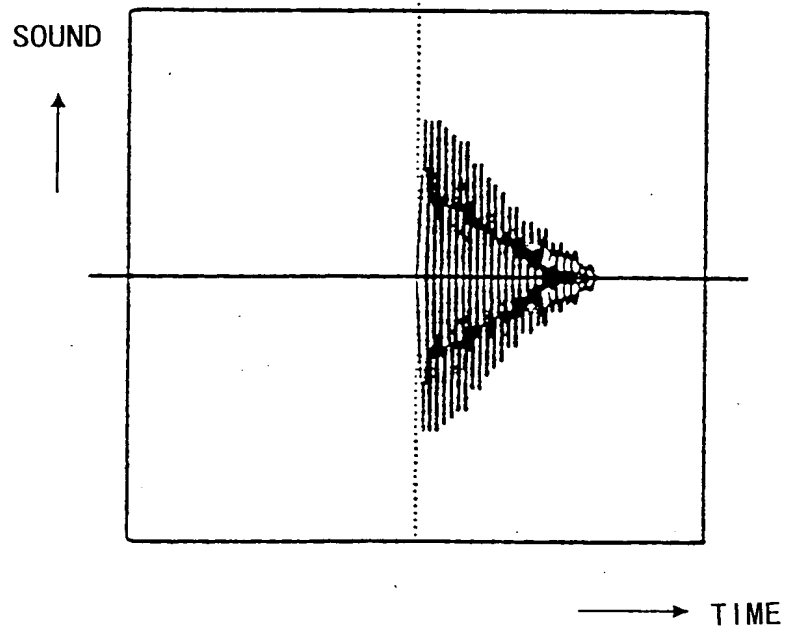


FIG. 13A

VCM CURRENT

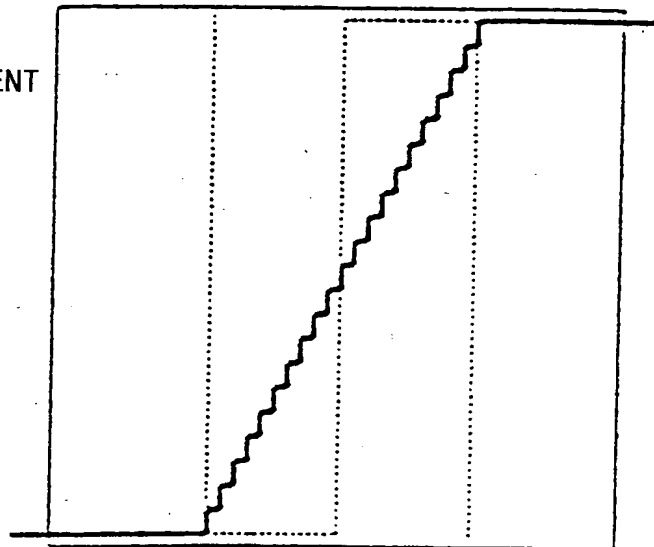
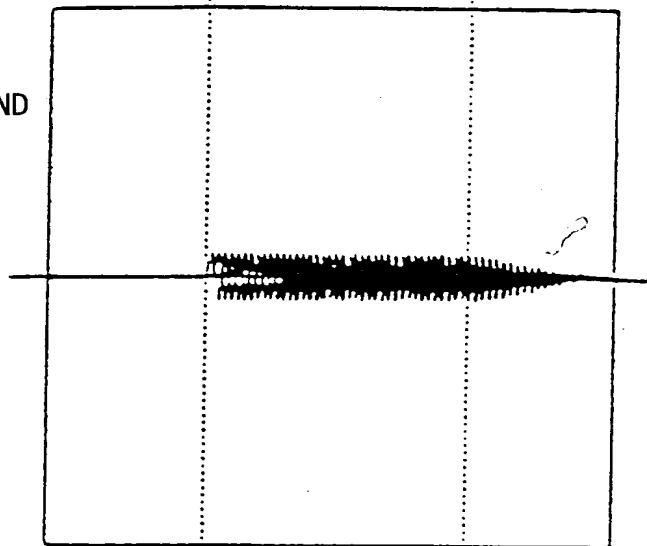


FIG. 13B

SOUND



→ TIME

09655615-092701

FIG. 14A

VCM CURRENT

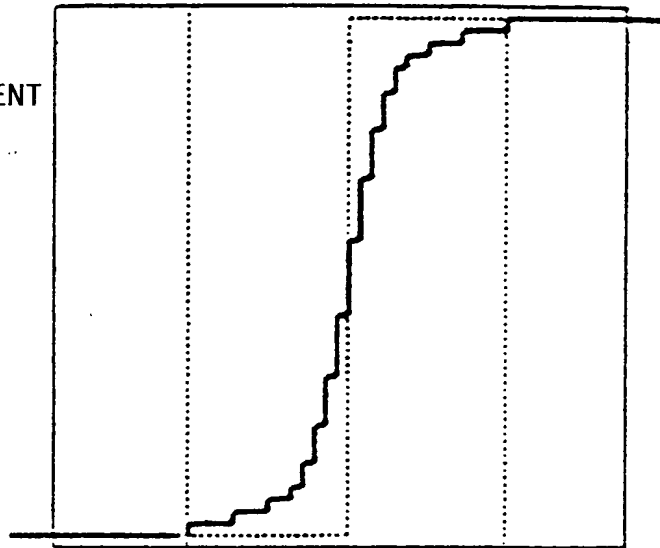
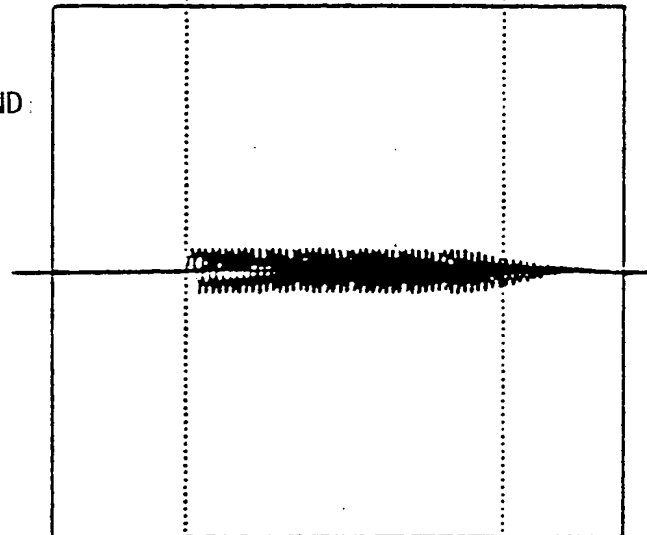


FIG. 14B

SOUND



→ TIME

0941.65876-092701

FIG. 15A

VCM CURRENT

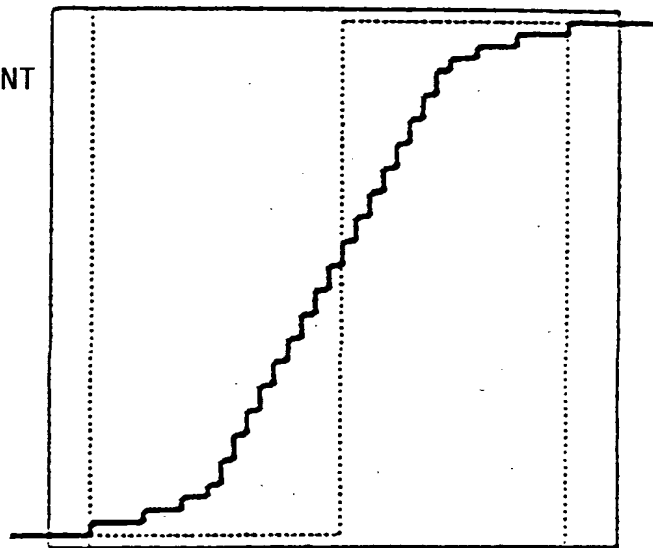
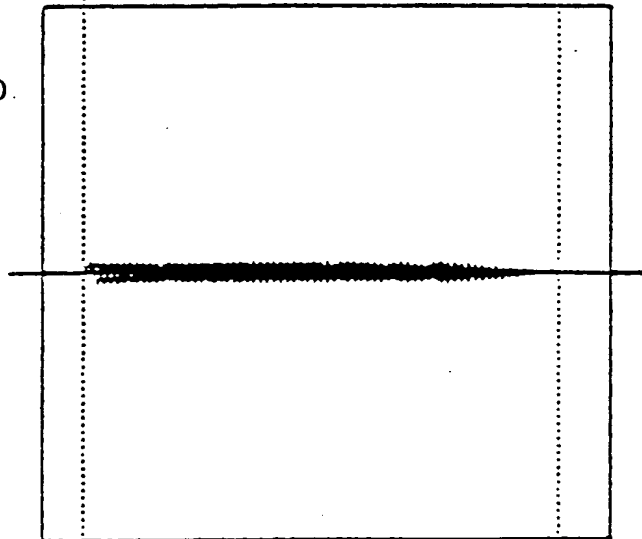


FIG. 15B

SOUND



→ TIME

0941.65876-092701

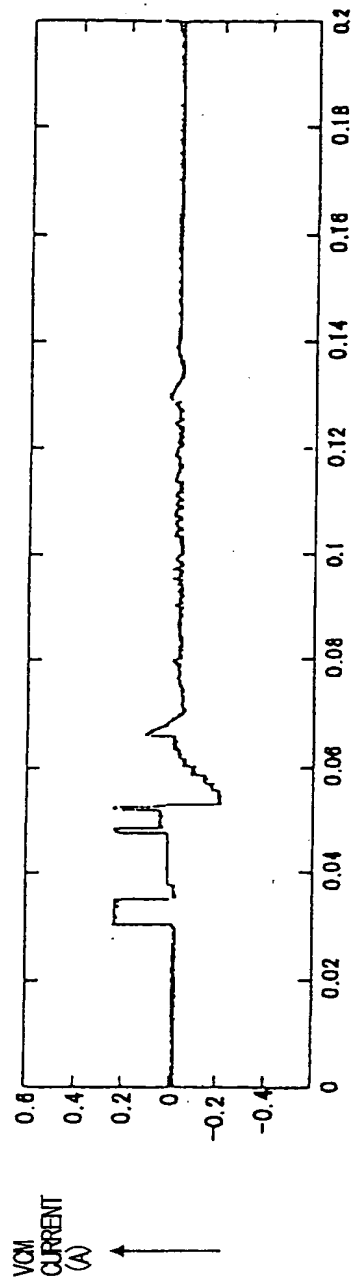


FIG. 16A

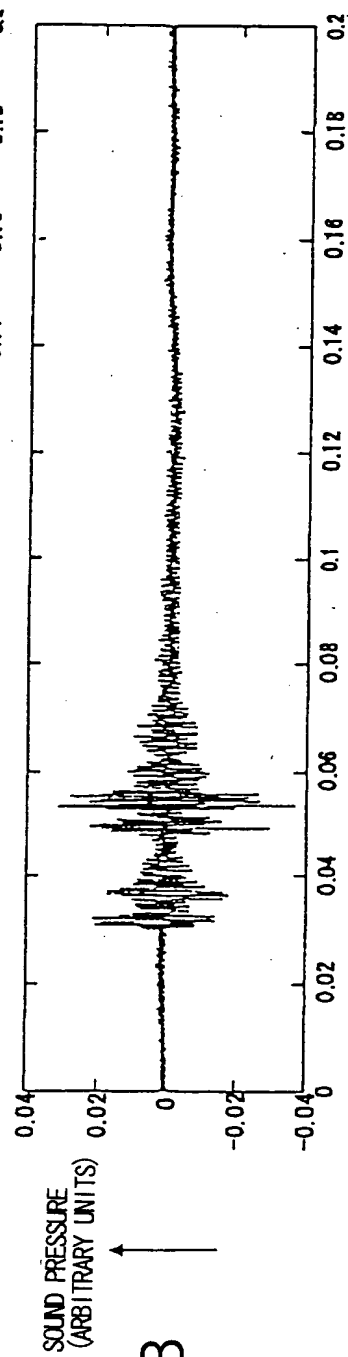
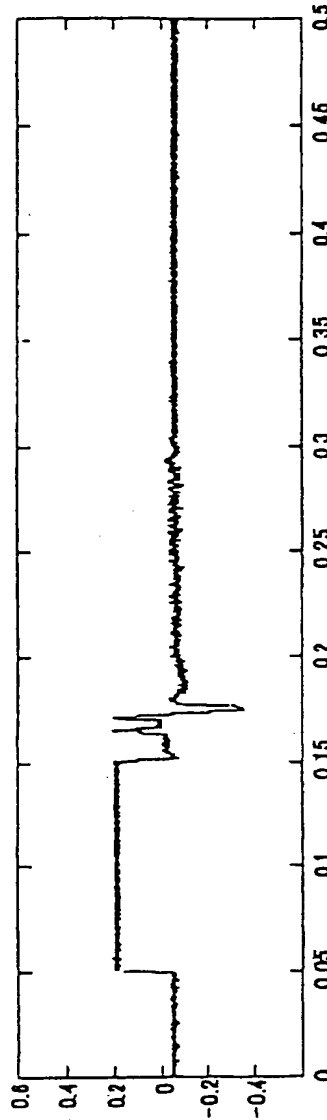


FIG. 16B

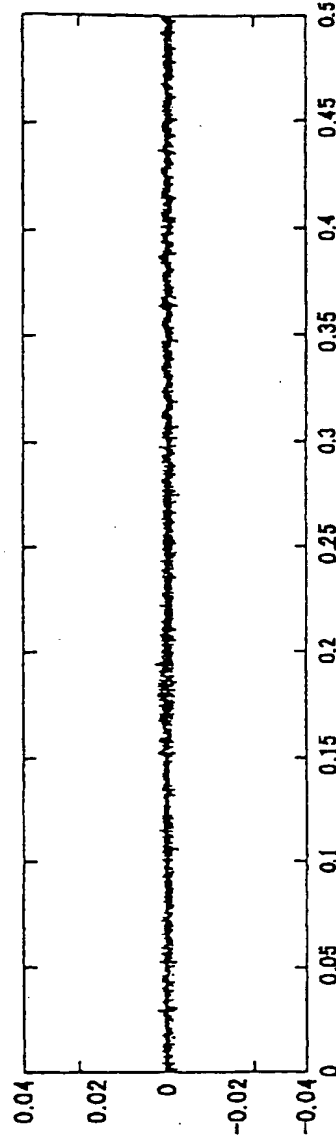
→ TIME (ms)

FD2260" 51959660



VCM
CURRENT
(A)

FIG. 17A

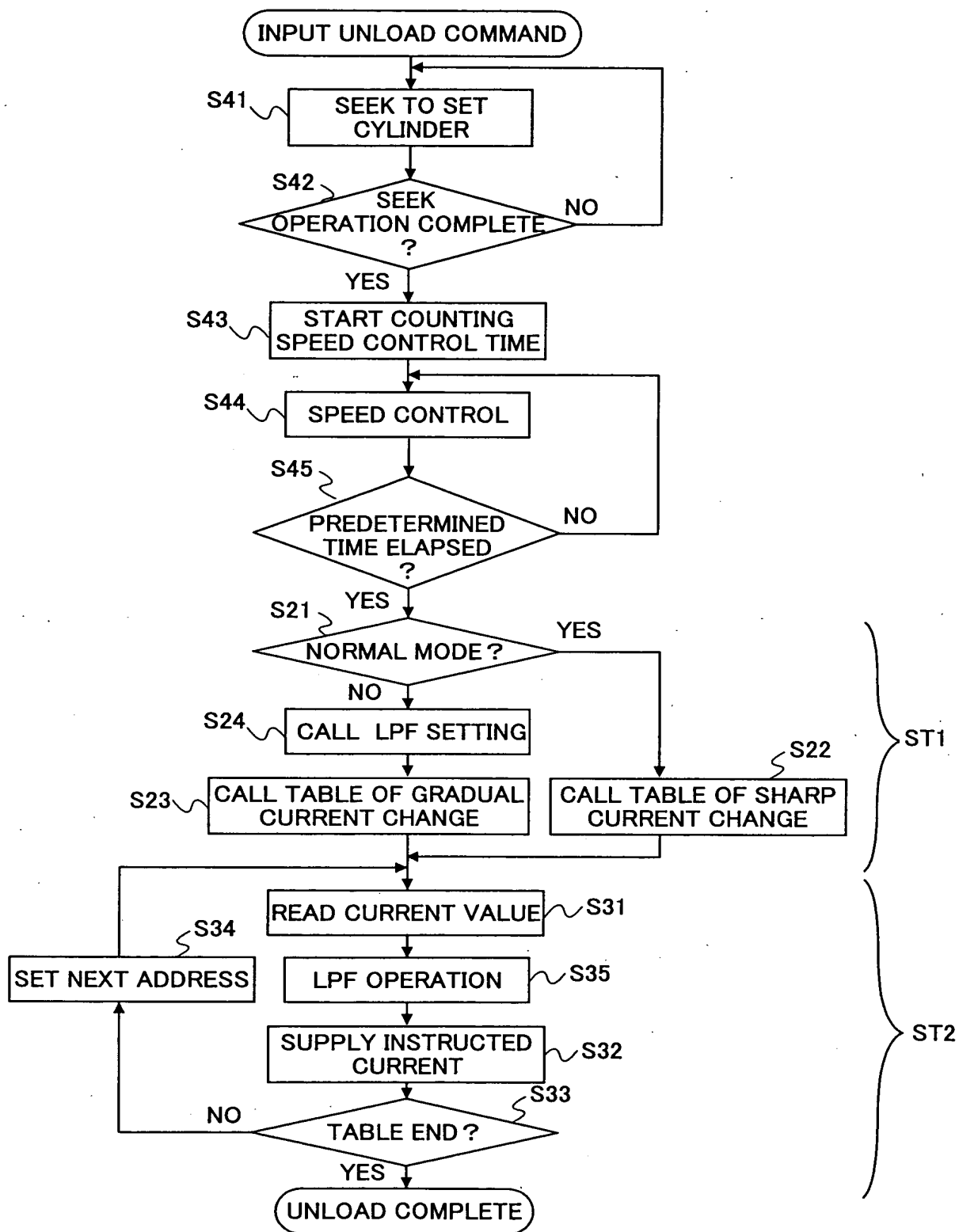


SOUND PRESSURE
(ARBITRARY UNITS)

FIG. 17B

TIME (ms)

FIG.18



09965615.092701

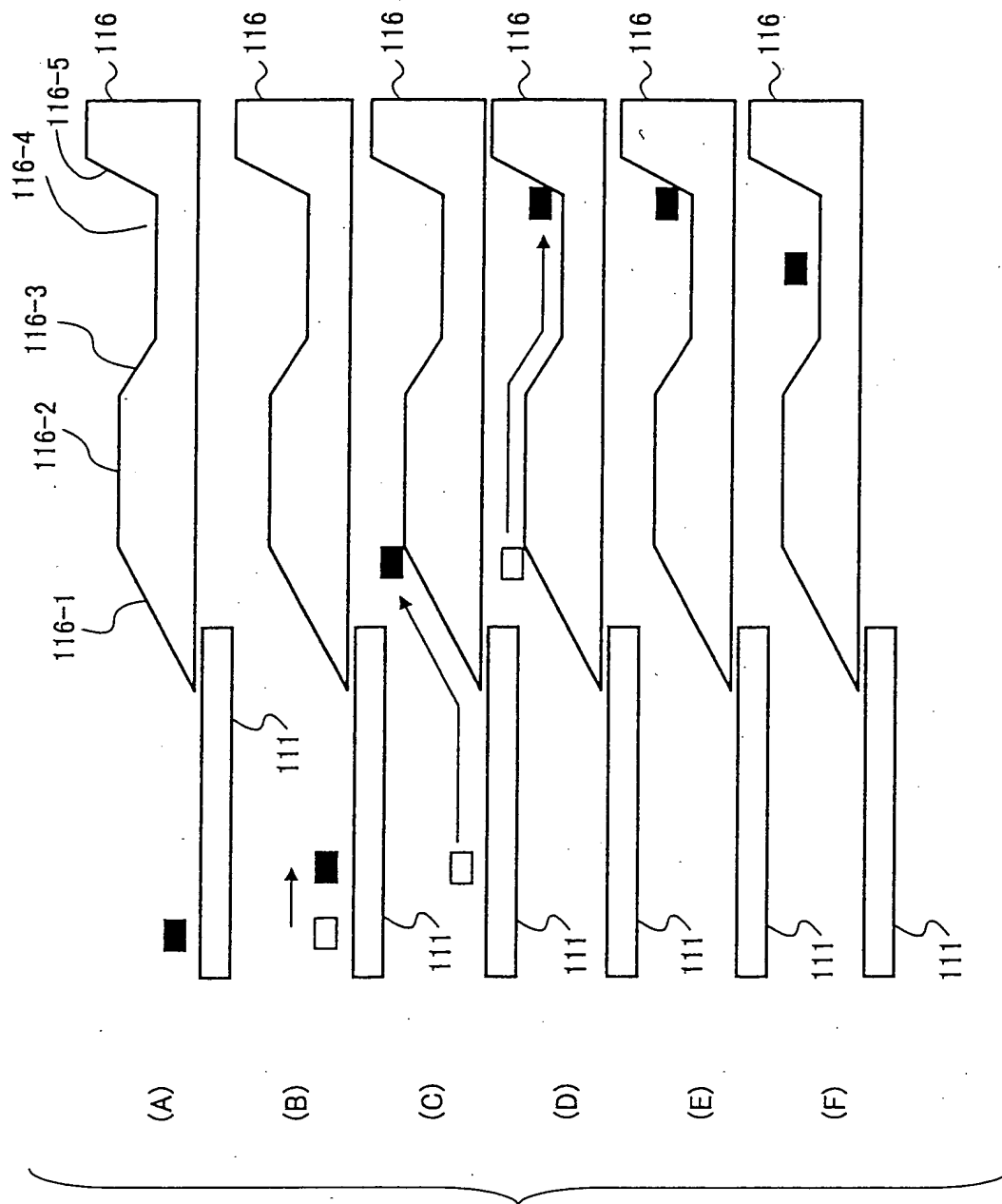


FIG. 19

FO2260" 57939660

FD-260" 5T959660

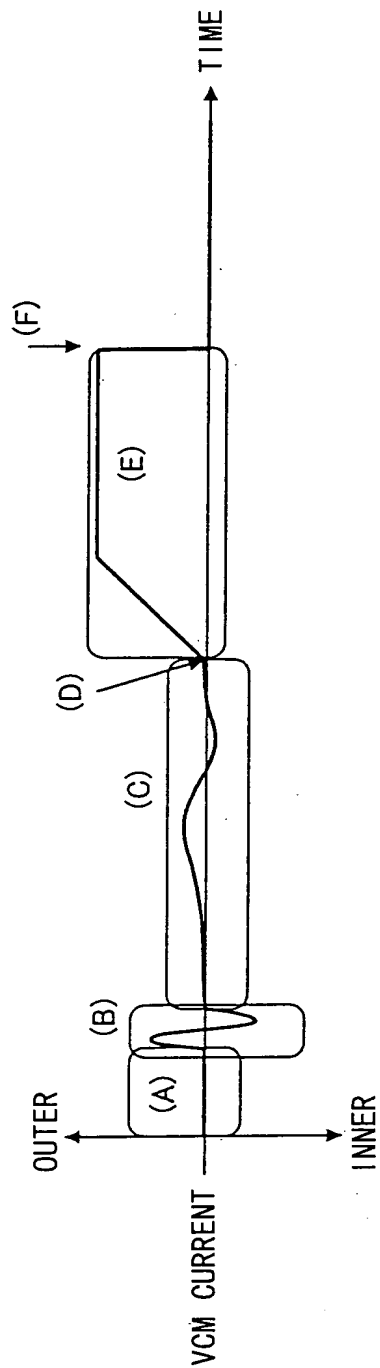


FIG. 20A

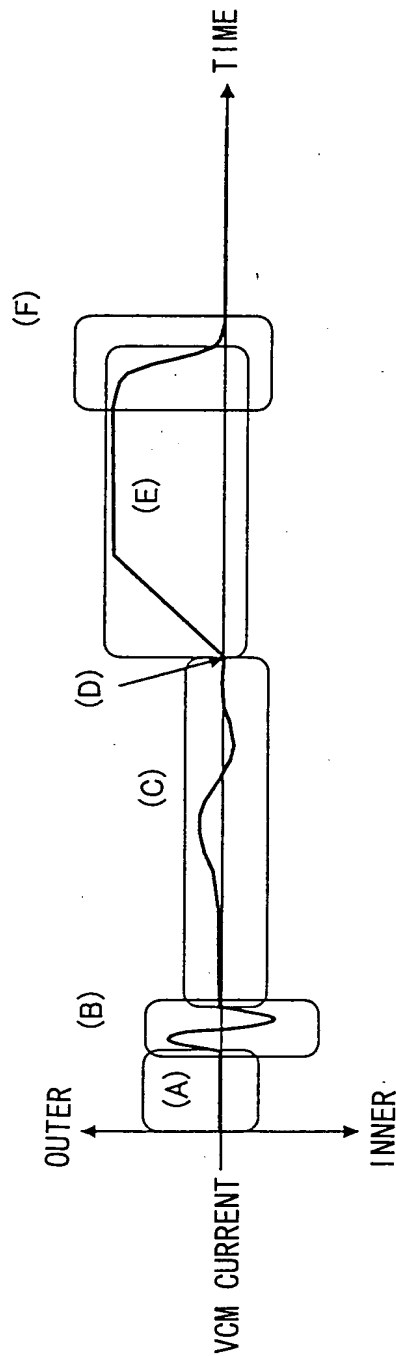


FIG. 20B

FD-260" STS9660

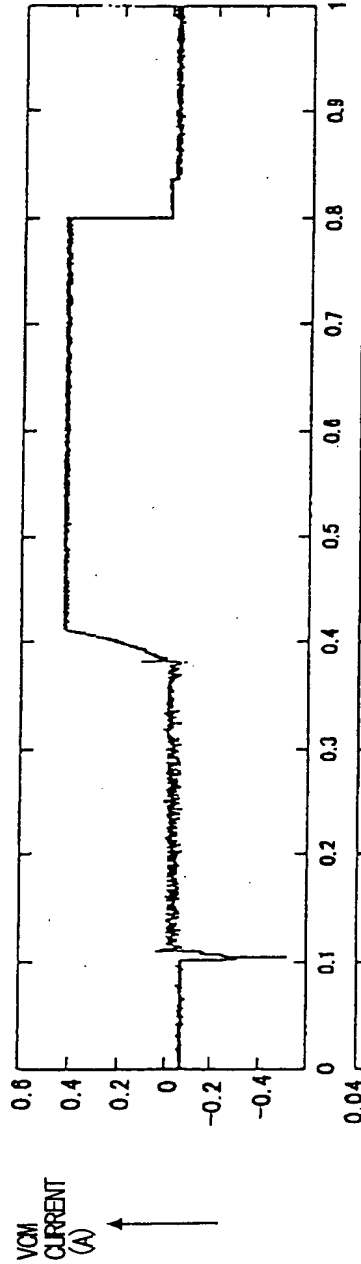


FIG. 21A

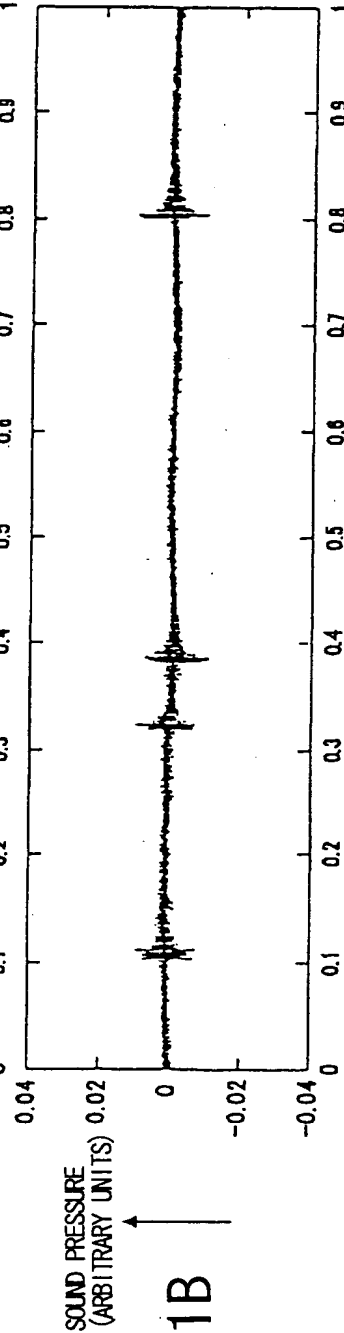


FIG. 21B

TIME (ms)

